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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the
present
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective
August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right
Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 16 NOV 24 MSDS-CCOHS file reloaded

NEWS EXPRESS NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 19:47:06 ON 07 DEC 2003

=> b ca

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE COVERS 1907 - 4 Dec 2003 VOL 139 ISS 24
FILE LAST UPDATED: 4 Dec 2003 (20031204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (guillian(w)barre(w)syndrome) or (motor(w)neuropathy) or (peripheral(w)neuropathy) or (autoimmune(w)neuropathy)

4 GUILLIAN
959 BARRE
80839 SYNDROME
4 GUILLIAN(W) BARRE(W) SYNDROME
69515 MOTOR
7932 NEUROPATHY
160 MOTOR(W) NEUROPATHY
152253 PERIPHERAL
7932 NEUROPATHY
1891 PERIPHERAL(W) NEUROPATHY
29909 AUTOIMMUNE
7932 NEUROPATHY
37 AUTOIMMUNE(W) NEUROPATHY

L1 2057 (GUILLIAN(W) BARRE(W) SYNDROME) OR (MOTOR(W) NEUROPATHY) OR (PERIPHERAL(W) NEUROPATHY) OR (AUTOIMMUNE(W) NEUROPATHY)

=> s l1 and ganglioside?

11836 GANGLIOSIDE?

L2 96 L1 AND GANGLIOSIDE?

=> s l2 and antibod?

379987 ANTIBOD?

L3 76 L2 AND ANTIBOD?

=> s l3 and (surface(w)plasmon(w)resonance)

1766805 SURFACE
15074 PLASMON
431987 RESONANCE
4557 SURFACE(W) PLASMON(W) RESONANCE

L4 1 L3 AND (SURFACE(W) PLASMON(W) RESONANCE)

=> d all

L4 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS on STN

AN 136:18927 CA

ED Entered STN: 03 Jan 2002

TI A surface plasmon resonance biosensor assay
for measurement of anti-GM1 antibodies in neuropathy

AU Alaedini, Armin; Latov, Norman

CS Department of Neurology, Columbia University, New York, NY, 10032, USA

SO Neurology (2001), 56(7), 855-860

CODEN: NEURAI; ISSN: 0028-3878

PB Lippincott Williams & Wilkins
 DT Journal
 LA English
 CC 15-1 (Immunochemistry)
 Section cross-reference(s): 9
 AB Objective is to develop a rapid assay for the detection and measurement of anti-GM1 **ganglioside antibodies** in patients with neuropathy, using a **surface plasmon resonance**-based biosensor. Elevated levels of anti-GM1 **ganglioside antibodies** are obsd. in patients with acute and chronic motor neuropathies. Assays for detecting anti-GM1 **antibodies** in serum are increasingly being used to help the physician in the evaluation of these patients. Antigens were immobilized by adsorption of GM1 (active) and GM2 (control) **gangliosides** onto a dextran-based sensor chip which is in contact with a flow cell carrying the sample. Interaction of specific **antibodies** directed against GM1 with the **ganglioside**-coated sensor chip caused a change in refractive index at the surface of the chip, which was detected by an optical sensor, using the phenomenon of **surface plasmon resonance**. Sera from patients and healthy individuals were analyzed by the new assay and results were compared with those from ELISA. Anti-GM1 **antibody** isotype was identified by using a secondary **antibody**. The binding of anti-GM1 **antibodies** to the immobilized GM1 was obsd. in real time after ref. subtraction of the response from GM2 control. The response was proportional to **antibody** concn. The assay exhibited high specificity for sera from patients with multi-focal **motor neuropathy** and Guillain-Barre syndrome with **antibodies** against GM1. The **surface plasmon resonance** biosensor assay offers a rapid system for directly measuring **antibody** levels in serum without the use of any labels, while comparing favorably with the ELISA system in sensitivity and specificity.
 ST biosensor immunoassay **ganglioside** GM1 **antibody** neuropathy
 IT Immunoglobulins
 RL: ANT (Analyte); ANST (Analytical study)
 (G; **surface plasmon resonance** biosensor assay for anti-GM1 **antibody** measurement in neuropathy)
 IT Nervous system, disease
 (Guillain-Barre syndrome; **surface plasmon resonance** biosensor assay for anti-GM1 **antibody** measurement in)
 IT Immunoglobulins
 RL: ANT (Analyte); ANST (Analytical study)
 (M; **surface plasmon resonance** biosensor assay for anti-GM1 **antibody** measurement in neuropathy)
 IT Adsorption
 (immunoadsorption; adsorption of GM1 **gangliosides** onto a dextran-based sensor ship)
 IT Nerve, disease
 (neuropathy; **surface plasmon resonance** biosensor assay for anti-GM1 **antibody** measurement in neuropathy)
 IT Molecular association
 (of **ganglioside** GM1 with **antibodies**)
 IT Immobilization, molecular
 (protein; adsorption of GM1 **gangliosides** onto a dextran-based sensor ship)
 IT Biosensors
 Immunoassay
 (**surface plasmon resonance** biosensor assay for anti-GM1 **antibody** measurement in neuropathy)
 IT 37758-47-7, **Ganglioside** GM1
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (**surface plasmon resonance** biosensor

assay for anti-GM1 **antibody** measurement in neuropathy)
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Asbury, A; Ann Neurol 1990, V27, PS21 /
- (2) Asbury, A; J Child Neurol 2000, V15, P183 MEDLINE
- (3) Briani, C; Neuromuscul Disord 1996, V6, P311 MEDLINE
- (4) Carpo, M; Neurology 1999, V53, P2206 MEDLINE
- (5) Fagerstam, L; J Chromatogr 1992, V597, P397 MEDLINE
- (6) Holloway, R; Neurology 1999, V53, P1905 MEDLINE
- (7) Kinsella, L; Neurology 1994, V44, P1278 MEDLINE
- (8) Kissel, J; Semin Neurol 1998, V18, P83 MEDLINE
- (9) Malmqvist, M; Biochem Soc Trans 1999, V27, P335 CA
- (10) Marcus, D; J Neuroimmunol 1989, V25, P255 MEDLINE
- (11) Pestronk, A; Ann Neurol 1988, V24, P73 MEDLINE
- (12) Pestronk, A; Muscle Nerve 1991, V14, P927 MEDLINE
- (13) Pestronk, A; Neurology 2000, V54, P2353 MEDLINE
- (14) Sadiq, S; Neurology 1990, V40, P1067 MEDLINE
- (15) van Den Berg, L; Muscle Nerve 1996, V19, P637 MEDLINE

=> b medline

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	27.15	27.36
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

FILE 'MEDLINE' ENTERED AT 19:49:35 ON 07 DEC 2003

FILE LAST UPDATED: 2 DEC 2003 (20031202/UP). FILE COVERS 1958 TO DATE.

On April 13, 2003, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/changes2003.html> for a description on changes.

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(FILE 'HOME' ENTERED AT 19:47:06 ON 07 DEC 2003)

FILE 'CA' ENTERED AT 19:47:15 ON 07 DEC 2003

L1 2057 S (GUILLIAN(W)BARRE(W)SYNDROME) OR (MOTOR(W)NEUROPATHY) OR (PER
L2 96 S L1 AND GANGLIOSIDE?
L3 76 S L2 AND ANTIBOD?
L4 1 S L3 AND (SURFACE(W)PLASMON(W)RESONANCE)

FILE 'MEDLINE' ENTERED AT 19:49:35 ON 07 DEC 2003

=> s l4

46 GUILLIAN
4333 BARRE
516954 SYNDROME
38 GUILLIAN(W)BARRE(W)SYNDROME
158727 MOTOR
26087 NEUROPATHY
732 MOTOR(W)NEUROPATHY
272961 PERIPHERAL
26087 NEUROPATHY
6111 PERIPHERAL(W)NEUROPATHY

65803 AUTOIMMUNE
 26087 NEUROPATHY
 25 AUTOIMMUNE(W) NEUROPATHY
 11876 GANGLIOSIDE?
 645391 ANTIBOD?
 394494 SURFACE
 2780 PLASMON
 237628 RESONANCE
 2605 SURFACE(W) PLASMON(W) RESONANCE

L5 1 L3 AND (SURFACE(W) PLASMON(W) RESONANCE)

=> d ti

L5 ANSWER 1 OF 1 MEDLINE on STN
 TI A **surface plasmon resonance** biosensor assay
 for measurement of anti-GM(1) **antibodies** in neuropathy.

=> b uspatfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.38	27.74
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

FILE 'USPATFULL' ENTERED AT 19:50:01 ON 07 DEC 2003
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Dec 2003 (20031204/PD)
 FILE LAST UPDATED: 4 Dec 2003 (20031204/ED)
 HIGHEST GRANTED PATENT NUMBER: US6658663
 HIGHEST APPLICATION PUBLICATION NUMBER: US2003226186
 CA INDEXING IS CURRENT THROUGH 4 Dec 2003 (20031204/UPCA)
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Dec 2003 (20031204/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2003
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2003

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
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 >>> publications. The publication number, patent kind code, and <<<
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 >>> classifications, or claims, that may potentially change from <<<
 >>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l4

94 GUILLIAN
 2358 BARRE

44559 SYNDROME
 74 GUILLIAN (W) BARRE (W) SYNDROME
 601662 MOTOR
 6201 NEUROPATHY
 66 MOTOR (W) NEUROPATHY
 479312 PERIPHERAL
 6201 NEUROPATHY
 2708 PERIPHERAL (W) NEUROPATHY
 19062 AUTOIMMUNE
 6201 NEUROPATHY
 4 AUTOIMMUNE (W) NEUROPATHY
 2987 GANGLIOSIDE?
 93323 ANTIBOD?
 2135126 SURFACE
 3783 PLASMON
 108992 RESONANCE
 3165 SURFACE (W) PLASMON (W) RESONANCE
 L6 26 L3 AND (SURFACE (W) PLASMON (W) RESONANCE)

=> d ti 1-26

L6 ANSWER 1 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 2 OF 26 USPATFULL on STN
 TI Individualization of therapy with antiviral agents

 L6 ANSWER 3 OF 26 USPATFULL on STN
 TI Use of metabolic phenotyping in individualized treatment with amonafide

 L6 ANSWER 4 OF 26 USPATFULL on STN
 TI Individualization of therapy with antibiotic agents

 L6 ANSWER 5 OF 26 USPATFULL on STN
 TI Individualization of therapy with antihistamines

 L6 ANSWER 6 OF 26 USPATFULL on STN
 TI Individualization of therapy with anxiolitics

 L6 ANSWER 7 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 8 OF 26 USPATFULL on STN
 TI Individualization of therapy with antipsychotics

 L6 ANSWER 9 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 10 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 11 OF 26 USPATFULL on STN
 TI Use of metabolic phenotyping in individualized treatment with amonafide

 L6 ANSWER 12 OF 26 USPATFULL on STN
 TI Individualization of therapy with Alzheimer's disease agents

 L6 ANSWER 13 OF 26 USPATFULL on STN
 TI Individualization of therapy with antiarrhythmics

 L6 ANSWER 14 OF 26 USPATFULL on STN
 TI Individualization of therapy with antineoplastic agents

 L6 ANSWER 15 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

L6 ANSWER 16 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 17 OF 26 USPATFULL on STN
 TI Multiple determinants for metabolic phenotypes

 L6 ANSWER 18 OF 26 USPATFULL on STN
 TI Individualization of therapy with analgesics

 L6 ANSWER 19 OF 26 USPATFULL on STN
 TI Individualization of therapy with erectile dysfunction agents

 L6 ANSWER 20 OF 26 USPATFULL on STN
 TI Individualization of therapy with antidepressants

 L6 ANSWER 21 OF 26 USPATFULL on STN
 TI Individualization of therapy with immunosuppressants

 L6 ANSWER 22 OF 26 USPATFULL on STN
 TI Individualization of therapy with hyperlipidemia agents

 L6 ANSWER 23 OF 26 USPATFULL on STN
 TI Individualization of therapy with gastroesophageal reflux disease agents

 L6 ANSWER 24 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 25 OF 26 USPATFULL on STN
 TI Human cDNAs and proteins and uses thereof

 L6 ANSWER 26 OF 26 USPATFULL on STN
 TI **Surface plasmon resonance** biosensor for
 measurement of anti-glycolipid **antibody** levels in neuropathy

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
1.27	29.01

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.62

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STN INTERNATIONAL LOGOFF AT 19:50:40 ON 07 DEC 2003